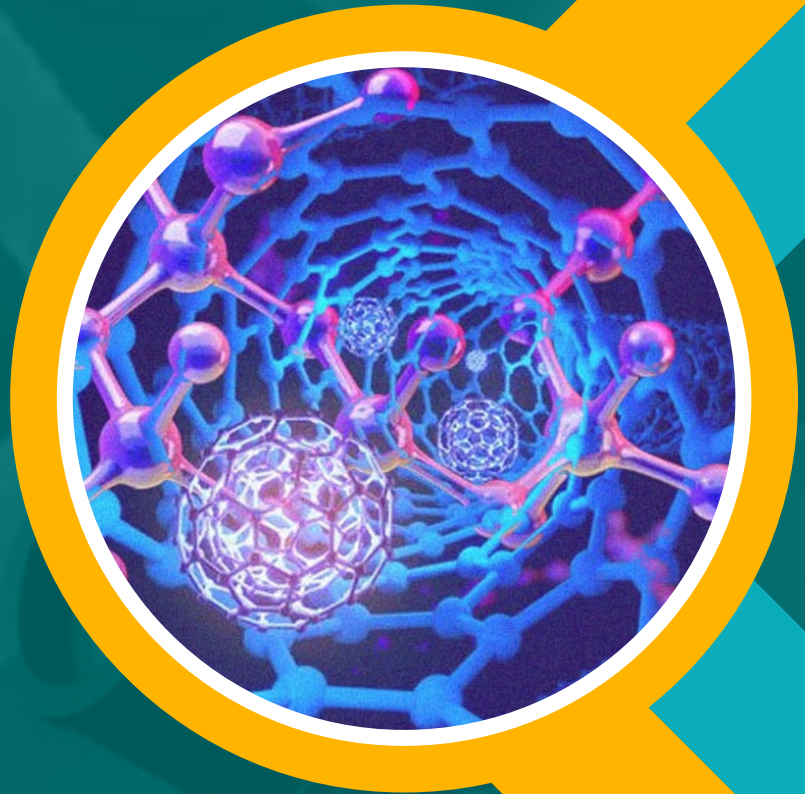


Theme:

“Evaluating the new
Strategies and Solutions
for Nanoscience &
Nanotechnology”

Venue

Park Hotel Hong Kong,
Chatham Rd S, Tsim Sha Tsui,
Hong Kong



World Congress on
**NANOSCIENCE AND
NANOTECHNOLOGY**

November 08-09, 2024 | Hong Kong

Nanotech 2024

<https://nanotech.mindauthors.com/>

SCIENTIFIC AGENDA

DAY-1

November 8, 2024

In-person Conference

Day 1

09:00 - 09:30 Onsite Registration & Seating Arrangement

09:30 - 09:45 Introduction & Opening Ceremony

Plenary Talk

09:45 - 10:15 **Title: The rational experimental-computational correlation (Recc) – reliability improvement toolkit for materials technologies in aerospace design**

Prof. Alexander Korsunsky, *Trinity College, UK*

Keynote Presentations

10:15 - 10:40 **Title: Transfer-free robust n-type graphene Field-effect transistors with high on/off ratio and mobility**

Prof. Soon-Gil Yoon, *Chungnam National University, Korea*

10:40 - 11:05 **Title: A study on the causal association of environmental pollution and health in national industrial complexes in Korea**

Prof. KilYong Choi, *Anyang University, Korea*

11:05 - 11:30 **Title: Exploring the Magnetic and Optical Properties of Dilute Magnetic Semiconductors: Doping and Synthesis Perspectives in Zinc Oxide Materials**

Prof Leelakrishna Reddy, *University of Johannesburg, South Africa*

Refreshment & Coffee - 11:30 - 11:50

Oral Presentations

11:50 - 12:10 **Title: Experimental tests of thermo-mechanical effect on buckling behaviour of thin-walled composite Z-shaped columns in asymmetrical configurations**

Prof. Katarzyna Falkowicz, *Lublin University of Technology, Poland*

12:10 - 12:30 **Title: High-performance room-temperature NO₂ gas sensors via advanced surface engineering**

Prof. Bei Bei Wang, *Fudan University, China*

12:30 - 12:50 **Title: Effect of coherent nanoprecipitate on strain hardening of Al alloys: breaking through the strength-ductility trade-off**

Dr. Pan Wu, *Northwestern Polytechnical University, China*

12:50 - 13:10 **Title: Multiscale thermo-kinetic characterization for β' and β_1 precipitation in mg-sm alloys**

Dr. Tianle Wang, *Northwestern Polytechnical University, China*

13:10 - 13:30 **Title: Formation of heterogeneous interfaces in the TiAl/Ti₂AlNb layered composite and its effect on the fracture toughness**

Dr. Wei Beibei, *Northwestern Polytechnical University, China*

Memorable Group Photo & Tempting Buffet lunch - 13:30 - 14:15

Oral Presentations Cont...

- 14:15 - 14:35** Title: **Microstructure evolution and its effect on mechanical properties in an electron beam welded β -solidified TiAl alloy**
Mr. Songkuan Zhao, *Northwestern Polytechnical University, China*
- 14:35 - 14:55** Title: **Formation of core-shell-like structure in β -solidified TiAl alloy and its effect on hot workability**
Dr. Yonghao Yu, *Northwestern Polytechnical University, China*
- 14:55 - 15:15** Title: **Biomimetic recovery of deep carious dentin through reconstruction of preformed mineralization micro-environment mediated by glycopeptide hydrogel**
Mr. Zhongcheng Li, *Sichuan University, China*

Group Presentation Cont...

- 15:15 - 15:55** Title: **Smart materials and structures: from 3D to 4D printing**
Prof. Daining Fang & Dr. Zeang Zhao, *Beijing Institute of Technology, China*

Refreshment & Coffee - 15:55 - 16:15

Oral Presentations Cont...

- 16:15 -16:35** Title: **Natural infrared light source for complex signal generation and applications**
Dr. Wen Shang, *Shanghai Jiao Tong University, China*
- 16:35 - 16:55** Title: **Unique features of quantum dot-based artificial graphene on Si substrates**
Dr. Zhenyang Zhong, *Fudan University, China*

***** End of Day 1 *****

SCIENTIFIC AGENDA

DAY-2

November 9, 2024

In-person Conference

Day 2

09:00 - 09:30 Onsite Registration & Seating Arrangement

Keynote Presentations

- 09:30 - 09:55 **Title: Microbial plastic factory for tailor-made production of biodegradable polylactide modifiers**
Prof. Seiichi Taguchi, *Engineering Biology Research Center Kobe University, Japan*
- 09:55 - 10:20 **Title: Concept of embedded dipole in surface and interface engineering**
Prof. Michael Zharnikov, *Heidelberg University, Germany*
- 10:20 - 10:45 **Title: Title: Mean-time-to-failure equations in microelectronic devices based on entropy production**
Prof. TU King Ning, *City University of Hong Kong, Hong kong*
- 10:45 - 11:10 **Title: Engineered stretchable substrate for niche applications**
Dr. Cheng-Yao Lo, *National Tsing Hua University, Taiwan*

Refreshment & Coffee - 11:10 - 11:30

Oral Presentations

- 11:30 - 11:50 **Title: Enhanced cryogenic properties of thermoplastic elastomer composites for marine applications: A focus on cold resistance and mechanical integrity**
Dr. Jin-Woo Lee, *Korea Institute of Materials Convergence Technology, Korea*
- 11:50 - 12:10 **Title: Evaluating the degree of endothelium dysfunction associated with cardiovascular**
Prof. Febee R Y Louka, *University of Louisiana at Lafayette, USA*
- 12:10 - 12:30 **Title: Soul over matter information system with tao transformative field**
Dr. Laure Le Corroller, & *Dr. Master Sha Tao Academy, Canada*
- 12:30 - 12:50 **Title: Porous silicon as a multimodal platform for nanomedicine**
Prof. Nicola Daldosso, *University of Verona, Italy*
- 12:50 - 13:10 **Title: Discovery of new anti-tubulin agents and their nanoparticle delivery for drug-resistant cancer**
Dr. Wei Li, *University of Tennessee Health Science Center, USA*

Memorable Group Photo & Tempting Buffet Lunch - 13:10 - 13:55

Oral Presentations Cont...

- 13:55 - 14:15 **Title: Improving effect of dietary kefir supplementation on the lipid peroxidation antioxidants levels in the blood of rabbits fed on a high-cholesterol diet**
Prof. Aysel Guven, *Baskent University, Turkey*
- 14:15 - 14:35 **Title: Exopolysaccharide-based hydrogel/AgNPs nanocomposite exhibits superior antitumor activity in breast cancer**
Prof. Ulviye Bunyatova, *Baskent University, Turkey*

14:35 - 14:55 **Title: Rational design of novel selenium nanosystems for triple-negative breast cancer treatment**
Prof. Wong Ka-hing, *The Hong Kong Polytechnic University, Hong Kong*

Group Presentations

14:55 - 15:35 **Title: Plant-derived Nanovesicles as vector for bioactive molecules**
Prof. Gianfranco Peluso & Dr Rita Paola Debri, *Unicamillus International Medical University, Italy*

Refreshment & Coffee - 15:35 - 15:55

Oral Presentations cont...

15:55 - 16:15 **Title: An antibiotic-free platform for eliminating persistent Helicobacter pylori infection without disrupting gut microbiota**
Prof. Jie Gao, *Naval Medical University, China*

16:15 - 16:35 **Title: Recent advances in phase change materials and their application in Li-batteries**
Dr. Ghulam Rasool, *Prince Mohammad Bin Fahd University, KSA*

Poster Presentations - 16:35 - 17:20

Title: The effect of the central hole on the stability of the compressed plate made of CFRP

Prof. Wysmulski Pawel, *Lublin University of Technology, Poland*

Title: Stability investigations of compressed thin-walled composite columns with various closed cross-sections

Prof. Debski Hubert, *Lublin Technology of University, Poland*

16:35 - 17:20 **Title: Enhanced Tetracycline degradation in saline water via Peroxydisulfate activation using Gracilaria Verrucosa-derived biochar as a novel P/S-C catalyst**
Dr. Soohyun Bae & Prof. Won Sik Shin, *Kyungpook National University, Korea*

Title: Stabilization of sediment contaminated with heavy metals using biochar composites

Dr. Nguyen Chi Cuong, *Kyungpook National University, Korea*

Poster Evaluation and Best Poster Awards - 17:20 - 17:35

*****End of the Conference*****



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